

Abstract

A high strength stringed musical instrument neck and an improved method of construction is employed using graphite strengthening beams in conjunction with a monocoque strengthening outer shell. The neck assembly will include one structural length of hard wood, one strengthening compression beam made from graphite flat stock, one strengthening tension beam made from graphite rod stock, and one external strengthening shell made from a plurality of layers of carbon cloth and epoxy resins cast upon a mold and the weave of the carbon cloth is disposed at a 45 degree angle to the longitudinal axis of the mold. A fingerboard of wood is included and adhesively secured to the neck and a two way truss rod assembly made from steel is provided for relief adjustment of the neck if desired.